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Docket No. ARC9-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the specification of which is:

attached hereto

was filed on 10/20/2003 as United States Application Number or PCT International Application Number 10/689,814 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 USC §119(a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Not Claimed:

(Number) (Country) (Day/Month/Year Filed)

Power of Attorney:

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Thirumal R. Coca (#29,784)
Daniel E. Johnson (#37,033)
Marc D. McSwain (#44,929)
Leonard T. Guzman (#46,308)
Mark McCabe (#53,291)

Joseph P. Curtin (#34,571)

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Docket No. ARC9-2003-0019-US1

Page 2 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Address all telephone calls to:

Address all correspondence to:

Joseph P. Curtin
 (503) 296-8373

Joseph P. Curtin
 1469 N.W. Morgan Lane
 Portland, OR 97229-5291

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: **Martin Aureliano HASSNER**Inventor's signature: Date: **3/2/04****Se**Residence: **1229 Christobal Privado, Mountain View, California 94040**Citizenship: **USA**Post Office Address: **1229 Christobal Privado
Mountain View, CA 94040**Full name of second inventor: **Steven R. HETZLER**

Inventor's signature:

Date:

Residence: **246 Eleanor Avenue, Los Altos, California 94022**Citizenship: **USA**Post Office Address: **246 Eleanor Avenue
Los Altos, CA 94022**Full name of third inventor: **Tetsuya TAMURA**

Inventor's signature:

Date:

Residence: **7-4-9 Tsukimino, Yamato, Kanagawa 242-0002 Japan**Citizenship: **Japan**Post Office Address: **7-4-9 Tsukimino
Yamato, Kanagawa 242-0002
Japan****BEST AVAILABLE COPY**

Docket No. ARC9-2003-0013-US1

Page 3 of 3

Full name of fourth inventor: **Barry Marshall TRAGER**

Inventor's signature:

Date:

Residence: **348 Barway Drive, Yorktown Heights, NY 10598**

Citizenship: **USA**

Post Office Address: **348 Barway Drive
Yorktown Heights, NY 10598**

Full name of fifth inventor: **Shmuel WINOGRAD**

Inventor's signature:

Date:

Residence: **235 Glendale Road, Scarsdale, NY 10583**

Citizenship: **USA**

Post Office Address: **235 Glendale Road
Scarsdale, NY 10583**

Full name of sixth inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

Full name of seventh inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

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Docket No. ARC9-2003-0013-US1

Page 1 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the specification of which is:

- attached hereto
- was filed on 10/20/2003 as United States Application Number or PCT International Application Number 10/689,814 and was amended on (if applicable).

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I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 USC §119(a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(e) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s): Priority Not Claimed:

(Number) _____ (Country) _____

(Day/Month/Year Filed)

Power of Attorney:

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Thirumal R. Coca (#29,784)
 Daniel E. Johnson (#37,033)
 Marc D. McSwain (#44,929)
 Leonard T. Guzman (#46,308)
 Mark McCabe (#53,291)

Joseph P. Curtin (#34,571)

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Page 2 of 3

Docket No. ARC9-2003-0018-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Address all telephone calls to:

Address all correspondence to:

Joseph P. Curtin
(503) 296-8373

Joseph P. Curtin
1469 N.W. Morgan Lane
Portland, OR 97229-5291

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: **Martin Aureliano HASSNER**

Inventor's signature:

Date:

Residence: **1229 Christobal Privado, Mountain View, California 94040**

Citizenship: **USA**

Post Office Address: **1229 Christobal Privado
Mountain View, CA 94040**

Full name of second Inventor: **Steven R. HETZLER**

Inventor's signature:

Date:

3/2/2004

Residence: **246 Eleanor Avenue, Los Altos, California 94022**

Citizenship: **USA**

Post Office Address: **246 Eleanor Avenue
Los Altos, CA 94022**

Full name of third Inventor: **Tetsuya TAMURA**

Inventor's signature:

Date:

Residence: **7-4-9 Tsukimino, Yamato, Kanagawa 242-0002 Japan**

Citizenship: **Japan**

Post Office Address: **7-4-9 Tsukimino
Yamato, Kanagawa 242-0002
Japan**

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Page 3 of 3

Docket No. ARC9-2003-0013-US1

Full name of fourth inventor: **Barry Marshall TRAGER**

Inventor's signature:

Date:

Residence: **348 Barway Drive, Yorktown Heights, NY 10598**

Citizenship: **USA**

Post Office Address: **348 Barway Drive
Yorktown Heights, NY 10598**

Full name of fifth inventor: **Shmuel WINOGRAD**

Inventor's signature:

Date:

Residence: **235 Glendale Road, Scarsdale, NY 10583**

Citizenship: **USA**

Post Office Address: **235 Glendale Road
Scarsdale, NY 10583**

Full name of sixth inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

Full name of seventh inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

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Page 1 of 3

Docket No. ARCS-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**As a below named Inventor, I hereby declare that:**

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole Inventor (if only one name is listed below) or an original, first and joint Inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the specification of which is:

attached hereto

was filed on 10/20/2003as United States Application Number or PCT International Application Number 10/689,814
and was amended on _____ (If applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 51.56.

I hereby claim foreign priority benefits under 35 USC §119(a-d) or §365(b) of any foreign application(s) for patent or Inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or Inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s): Priority Not Claimed:

(Number)

(Country)

(Day/Month/Year Filed)

Power of Attorney:

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Thirumal R. Coca (#29,784)

Joseph P. Curtin (#34,571)

Daniel E. Johnson (#37,036)

Mark D. McSwain (#44,929)

Leonard T. Guzman (#46,208)

Mark McCabe (#53,291)

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Page 2 of 3

Docket No. ARCB-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Address all telephone calls to:

Joseph P. Curtin
(503) 296-8373

Address all correspondence to:

Joseph P. Curtin
1469 N.W. Morgan Lane
Portland, OR 97229-5291

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Martin Aureliano HASSNER

Inventor's signature:

Date:

Residence: 1229 Christobal Privado, Mountain View, California 94040

Citizenship: USA

Post Office Address: 1229 Christobal Privado
Mountain View, CA 94040

Full name of second inventor: Steven R. HETZLER

Inventor's signature:

Date:

Residence: 246 Eleanor Avenue, Los Altos, California 94022

Citizenship: USA

Post Office Address: 246 Eleanor Avenue
Los Altos, CA 94022

Full name of third inventor: Tetsuya TAMURA

Inventor's signature:

Date:

Apr 20/04

Residence: 7-4-9 Tsukimino, Yamato, Kanagawa 242-0002 Japan

Citizenship: Japan

Post Office Address: 7-4-9 Tsukimino
Yamato, Kanagawa 242-0002
Japan

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04-04-22 06:12PM:EF1BM (#)

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04/22/2004 10:17 408-927-3375

ALMADEN IP LAW

PAGE 16/31
PAGE 10/22

Page 3 of 3

Docket No. ARCS-2003-0013-US1

Full name of fourth inventor: **Barry Marshall TRAGER**

Inventor's signature:

Date:

Residence: 348 Barway Drive, Yorktown Heights, NY 10598

Citizenship: USA

Post Office Address: 348 Barway Drive
Yorktown Heights, NY 10598

Full name of fifth inventor: **Shmuel WINOGRAD**

Inventor's signature:

Date:

Residence: 235 Glendale Road, Scarsdale, NY 10583

Citizenship: USA

Post Office Address: 235 Glendale Road
Scarsdale, NY 10583

Full name of sixth inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

Full name of seventh inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

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04-04-22:05:12PM:ED19M (#)

Page 1 of 3

Docket No. ARC9-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

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GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the specification of which is:

attached hereto

was filed on 10/20/2003
as United States Application Number or PCT International Application Number 10/689,814
and was amended on _____ (if applicable).

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I hereby claim foreign priority benefits under 35 USC §119(a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Not Claimed:

(Number) _____ (Country) _____

(Day/Month/Year Filed)

Power of Attorney.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Thirumal R. Coca (#29,784)
Daniel E. Johnson (#37,033)
Marc D. McSwain (#44,929)
Leonard T. Guzman (#46,308)
Mark McCabe (#53,291)

Joseph P. Curtin (#34,571)

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Page 2 of 3

Docket No. ARCB-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

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Address all correspondence to:

Joseph P. Curtin
(503) 296-8373

Joseph P. Curtin
1469 N.W. Morgan Lane
Portland, OR 97229-5291

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Full name of sole or first inventor: Martin Aureliano HASSNER

Inventor's signature:

Date:

Residence: 1229 Christobel Privado, Mountain View, California 94040

Citizenship: USA

Post Office Address: 1229 Christobel Privado
Mountain View, CA 94040

Full name of second inventor: Steven R. HETZLER

Inventor's signature:

Date:

Residence: 246 Eleanor Avenue, Los Altos, California 94022

Citizenship: USA

Post Office Address: 246 Eleanor Avenue
Los Altos, CA 94022

Full name of third inventor: Tetsuya TAMURA

Inventor's signature:

Date:

Residence: 7-4-9 Tsukimino, Yamato, Kanagawa 242-0002 Japan

Citizenship: Japan

Post Office Address: 7-4-9 Tsukimino
Yamato, Kanagawa 242-0002
Japan

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Page 3 of 3

Docket No. ARCG-2003-0013-US1

Full name of fourth inventor: Barry Marshall TRAGER

Inventor's signature: *Barry Trager*

Date: March 2, 2004

Residence: 348 Barway Drive, Yorktown Heights, NY 10598

Citizenship: USA

Post Office Address: 348 Barway Drive
Yorktown Heights, NY 10598

Full name of fifth inventor: Shmuel WINOGRAD

Inventor's signature: *Shmuel Winograd*

Date: March 2, 2004

Residence: 235 Glendale Road, Scarsdale, NY 10583

Citizenship: USA

Post Office Address: 235 Glendale Road
Scarsdale, NY 10583

Full name of sixth inventor:

Inventor's signature:

Date:

Residence:

Citizenship:

Post Office Address:

Full name of seventh inventor:

Inventor's signature:

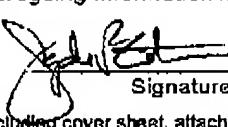
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Citizenship:

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Tab settings → → →					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Martin A. HASSNER Barry M. Trager Steven R. HETZLER Shmuel WINOGRAD Tetsuya TAMURA Additional name(s) of conveying party(ies) attached? Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies) Name: International Business Machines Corporation Internal Address: _____ Street Address: City: Armonk State: NY Zip: 10504		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: 03/02/04 03/02/04 04/20/04					
			Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 04/20/04			03/02/04 03/02/04		
A. Patent Application No.(s)			B. Patent No.(s) 03/02/04 03/02/04		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Joseph P. Curtin Internal Address: Street Address: 1469 N.W. Morgan Lane			6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41). \$ 40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account		
			8. Deposit account number: 09-0441		
(Attach duplicate copy of this page if paying by deposit account)					
DO NOT USE THIS SPACE					
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>					
Joseph P. Curtin, Reg. No. 34,571 Name of Person Signing			 Signature 4/22/04 Date		
Total number of pages including cover sheet, attachments, and documents: 10 <small>Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231</small>					

Docket ARC9-2003-0013-US1

Page 1 of 2

ASSIGNMENT

Whereas, we,

- | | |
|------------------------------|---------------------------|
| (1) Martin Aureliano HASSNER | (2) Steven R. HETZLER |
| City of Mountain View | City of Los Altos |
| County of Santa Clara | County of Santa Clara |
| State of California | State of California |
| (3) Tetsuya TAMURA | (4) Barry Marshall TRAGER |
| City of Yamato | City of Yorktown Heights |
| County of | County of Westchester |
| State of Kanagawa, Japan | State of New York |
| (5) Shmuel WINOGRAD | (6) |
| City of Scarsdale | City of |
| County of Westchester | County of |
| State of New York | State of |

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) 3/2/04 (2) _____ (3) _____
(4) _____ (5) _____ (6) _____

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desire to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereon is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

04/22/2004 13:17 5032970452
04/22/2004 10:17 408-927-3375

ALMADEN IP LAW

PAGE 25/31
PAGE 15/22

Docket ARC9-2003-0013-US1

Page 2 of 2

(1) Inventor: **Martin Aureliano HASSNER**

Signature OTW

City/State: SAN JOSE/CA

Date 3/2/04

(2) Inventor: **Steven R. HETZLER**

Signature _____

City/State: _____

Date _____

(3) Inventor: **Tetsuya TAMURA**

Signature _____

City/State: _____

Date _____

(4) Inventor: **Barry Marshall TRAGER**

Signature _____

City/State: _____

Date _____

(5) Inventor: **Shmuel WINOGRAD**

Signature _____

City/State: _____

Date _____

(6) Inventor:

Signature _____

City/State: _____

Date _____

Docket ARC9-2003-0013-US1

Page 1 of 2

ASSIGNMENT

Whereas, I/we,

(1) Martin Aureliano HASSNER

City of Mountain View

County of Santa Clara

State of California

(3) Tetsuya TAMURA

City of Yamato

County of

State of Kanagawa, Japan

(5) Shmuel WINOGRAD

City of Scarsdale

County of Westchester

State of New York

(2) Steven R. HETZLER

City of Los Altos

County of Santa Clara

State of California

(4) Barry Marshall TRAGER

City of Yorktown Heights

County of Westchester

State of New York

(6)

City of

County of

State of

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) _____ (2) *22-3-14-3/2/14/03* _____
 (4) _____ (5) _____ (6) _____

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

04/22/2004 13:17 5032970452
04/22/2004 10:17 408-927-3375

ALMADEN IP LAW

PAGE 27/31
PAGE 17/22

Docket ARC9-2003-0013-US1

Page 2 of 2

(1) Inventor: Martin Aureliano HASSNER

City/State:

Signature _____

Date _____

(2) Inventor: Steven R. HETZLER

City/State:

San Jose, Ca

Signature _____

Date 3/21/2004

(3) Inventor: Tetsuya TAMURA

City/State:

Signature _____

Date _____

(4) Inventor: Barry Marshall TRAGER

City/State:

Signature _____

Date _____

(5) Inventor: Shmuel WINOGRAD

City/State:

Signature _____

Date _____

(6) Inventor:

City/State:

Signature _____

Date _____

Page 1 of 2

Docket ARCT-2003-0013-US1

ASSIGNMENT

Whereas, I/we,

(1) **Martin Aureliano HASSNER**
 City of Mountain View
 County of Santa Clara
 State of California

(3) **Tetsuya TAMURA**
 City of Yamato
 County of
 State of Kanagawa, Japan

(5) **Shmuel WINOGRAD**
 City of Scarsdale
 County of Westchester
 State of New York

(2) **Steven R. HETZLER**
 City of Los Altos
 County of Santa Clara
 State of California

(4) **Barry Marshall TRAGER**
 City of Yorktown Heights
 County of Westchester
 State of New York

(6)

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) _____ (2) _____ (3) April 10, 2004
 (4) _____ (5) _____ (6) _____

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Page 2 of 2

Docket ARC9-2003-0018-US1

(1) Inventor: Martin Aureliano HASSNER

City/State:

Signature _____

Date _____

(2) Inventor: Steven R. HETZLER

City/State:

Signature _____

Date _____

(3) Inventor: Tetsuya TAMURA

City/State:

Signature Tetsuya TamuraDate Apr 20/04

(4) Inventor: Berry Marshall TRAGER

City/State:

Signature _____

Date _____

(5) Inventor: Shmuel WINOGRAD

City/State:

Signature _____

Date _____

(6) Inventor:

City/State:

Signature _____

Date _____

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Page 1 of 2

ASSIGNMENT

Whereas, we,

- | | |
|------------------------------|---------------------------|
| (1) Martin Aureliano HASSNER | (2) Steven R. HETZLER |
| City of Mountain View | City of Los Altos |
| County of Santa Clara | County of Santa Clara |
| State of California | State of California |
| (3) Tetsuya TAMURA | (4) Barry Marshall TRAGER |
| City of Yamato | City of Yorktown Heights |
| County of | County of Westchester |
| State of Kanagawa, Japan | State of New York |
| (5) Shmuel WINOGRAD | (6) |
| City of Scarsdale | City of |
| County of Westchester | County of |
| State of New York | State of |

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) _____ (2) _____ (3) _____
 (4) March 2, 2004 (5) March 2, 2004 (6) _____

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

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ALMADEN IP LAW

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Page 2 of 2

(1) Inventor: Martin Aureliano HASSNER

City/State:

Signature _____ Date _____

(2) Inventor: Steven R. HETZLER

City/State:

Signature _____ Date _____

(3) Inventor: Tetsuya TAMURA

City/State:

Signature _____ Date _____

(4) Inventor: Barry Marshall TRAGER

City/State: Yorktown, NY

Signature Barry Trager Date March 2, 2004

(5) Inventor: Shmuel WINOGRAD

City/State: YORKTOWN, NY

Signature Shmuel Winograd Date March 2, 2004

(6) Inventor:

City/State:

Signature _____ Date _____